

# New Nuclear Weapons Data Source Directory Distributed

Distributed last week at Sandia Laboratories was a new publication, "Nuclear Weapons Data Source Directory," which should prove useful to many of Sandia's technical people.

The directory is a comprehensive listing of computerized information systems within the AEC laboratories. It also contains a listing of individuals and organizations possessing specialized knowledge of nuclear weapons.

More than a year in compilation, the directory was issued by AECOP, Atomic Energy Commission Combined Operations Planning, Oak Ridge, under the guidance of an interagency group, the Weapons Data Source Panel. Luke Heilman (7400), Charles Barncord (7600), and Beryl Hefley (8232) served as member of the original panel. Later coordination for the directory was performed by Jim Holpp (7415) and George Ruzicka (8223).

The first part of the directory contains a description of the book's background, approach and concept. The second part is the listings of data systems and specialized information. The listings are divided into eight sections — Properties of Materials, Weapons Design and Development, System and Device Testing, Nuclear Safety, Weapon Production, Quality Testing, Stockpile, and Nuclear Weapon Effects.

A typical listing reads as follows: "Aerothermodynamic Research, contact: 5-X (Ken Touryan, 9340).

The information in this module includes studies on reentry vehicles and several other general topics.

a. Reentry Vehicle Studies: These include a number of low field codes to determine flow characteristics around RV's, high temperature transport property and chemical kinetic data, microwave-plasma interaction models and several special concepts such as transpiration cooling of nose-tips."

A person wanting this information would contact Ken who would then verify the requester's need to know. Sandia's Security organization would verify the requester's identification in case he was employed outside Sandia and release of classified information was involved.

Each "contact" listed is the custodian of that particular information system and is responsible for its continuous updating.

Organizations contributing to the directory include the Albuquerque Operations Office, both Sandia Laboratories, Los Alamos Scientific Laboratory, Lawrence Radiation Laboratory, Nevada Operations Office and AECOP. Subsequent issues of the directory will contain listings from the AEC's production facilities such as Bendix-Kansas City and Mound Laboratories.

Technical directors at Sandia Laboratories have copies of the directory.

# LAB NEWS

VOL. 22, NO. 3

JANUARY 30, 1970

SANDIA LABORATORIES • ALBUQUERQUE NEW MEXICO & LIVERMORE CALIFORNIA

## Out-of-Hours Program

# Three Sandians Complete Study For Tech Institute Certificates

Three Sandians who completed requirements for the Labs' Technical Institute Equivalency Program will receive TI certificates from their directors.

The three graduates are:

—Jake Gonzales (4253-5), mechanical technology. Jake has been at Sandia since 1955, starting as a machinist's helper. He was a member of the first graduating class in Sandia's machinist apprenticeship program in 1960. Jake has since been promoted to staff assistant and has worked as a programmer in the NC Programming Division, as an apprentice instructor in the Employee Training and Education Division, and recently was promoted to section supervisor of the Apprentice Section 4253-5.

—Everett Giesecker (1522), administrative technology. A Sandian for 17 years, Everett started as a model instrument inspector. In 1957 he was promoted to staff assistant and became a programmer.

—Cecil Tucker (7652), drafting and design technology. He joined Sandia in 1959 and has worked in a drafting group since then. He was promoted to staff assistant in 1963.

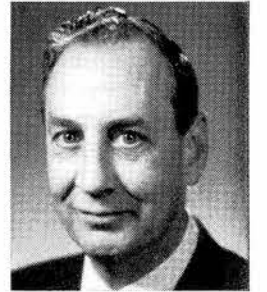
Graduates of the program complete 20 courses in Sandia's out-of-hours education program or approved equivalents offered by Technical-Vocational Institute or UNM. Upon completion of the equivalency requirements, the Laboratories recognizes the employee as a technical institute graduate.



Jake Gonzales



Cecil Tucker



Everett Giesecker

## Seminar Speakers

# Courageous Weapon Specialists Brave College Classrooms

Gus Simmons (100) and Charlie Winter (1710) discussed nuclear weapons technology at a seminar on "The Impact of Technology on Society" held last week at the University of Albuquerque.

Both men admit they were a little apprehensive beforehand because an earlier speaker who had discussed the possibility of a computer-oriented society met considerable reaction from the students. However, the audience reaction to their talks was inquiring and enthusiastic.

Gus discussed the growth and changes in the world's nuclear stockpile in the last decade. He pointed out that President Kennedy in 1960 said, "The world's nuclear stockpile is about 10 tons of TNT for every person on the globe," and that Senator Pastore had said in 1964 that we (U.S.) now number our nuclear weapons in the tens of thousands.

He added, "This technical accomplishment was built on a pyramid of technology whose aggregate cost to the U.S. economy has been between \$20-30 billion. It would be astounding if there were not many instances of inventions and technical innovations — made in the nuclear weapons business — which have found application elsewhere." His talk concentrated on identifying and estimating the magnitude of these influences.

In the discussion following his talk, one of the most interesting questions was, "Why should we continue to build more weapons when there is already such a large nuclear stockpile?" Gus answered, "The capabilities and carriers of nuclear weapons continue to change — and so do the circumstances. For example, not too long ago our national strategy was one of massive retaliation. During the Kennedy administration this was changed to a policy of measured response which resulted in the development of new weapons systems and command concepts."

Charlie's presentation was more concerned with the history of how we defend ourselves and included a discussion of the several arms control agreements which are important to the nuclear field: the limited

test ban treaty, the prohibition of bombs in space, the non-proliferation treaty, and the current strategic arms limitation talks (SALT).

With regard to SALT, he said, "When our strategic deterrent is threatened by a Russian first-strike capability, we start to feel uneasy and start to feel pressure to build more weapons; or putting it another way, to escalate the arms race. This is why the ABM and the deployment of multiple, independently-targetable, reentry vehicles are important issues of the SALT."

Here again there were numerous questions asked after the talk. "I didn't consider any of them too extreme — or perhaps I was already well-prepared by questions my college-age son has asked me," Charlie said.



**NEW RADIO-CONTROLLED** airplane built by Sandia's Pattern Shop to specifications of TTR Development Division 7374 is being readied for a series of test drops at Tonopah Test Range. The plane, powered by five one-horsepower model airplane engines, has a 12-foot wingspread and is designed to carry a 25-lb. test unit to altitudes of 16,000 ft. From left are Arlon Hudgens, Dan Parsons, division supervisor, and Ted White.

# Two NASA Speakers Slated for Sandia Research Colloquium

The Sandia Research Colloquium has scheduled for Feb. 6 two speakers from NASA who will be en route to the New Mexico Academy of Science's Space Symposium in Santa Fe.

Dr. Nancy Roman, Chief of Astronomy in the Physics and Astronomy Program, will speak on "A Survey of Non-Solar Space Astronomy" during her 8:30 a.m. talk in Theater Bldg. 815. At 3 p.m. at the College of Santa Fe her subject will be "Space Astronomers Explore the Universe." Dr. Orr Reynolds, Director-Bioscience Programs, Office of Space Science and Applications, will discuss "Biological Studies in Space" at his 10 a.m. presentation at Sandia and again on Saturday, Feb. 7 at 9 a.m. in Santa Fe.

Jack Sivinski (1740), whose organization has a planetary quarantine contract with NASA, will be host to both visitors from Washington.

The Academy of Science symposium, which is open to the general public, will also feature talks by Capt. Lee Scherer, Director, Apollo Lunar Explorations, on "The Strategy of Lunar Exploration" and Leonard Nicholson, Office of Advanced Missions, on "Space Stations—The Next Step."

Irving Auerbach (9328) assisted in arrangements for the "Advancement of Science in New Mexico" award, which will be presented this year to Sen. Clinton P. Anderson. Dick Meyer (5224) is a member of the Academy's executive committee.

# IMOG Gaging Group Meeting at Sandia Laboratories Feb. 18-19

Members of the Interagency Mechanical Operations Group (IMOG) subgroup on gaging will meet at Sandia Laboratories Feb. 18-19. Joe Moody (7451) is chairman of the subgroup.

The program will include technical presentations and a tour of Area III environmental test facilities.

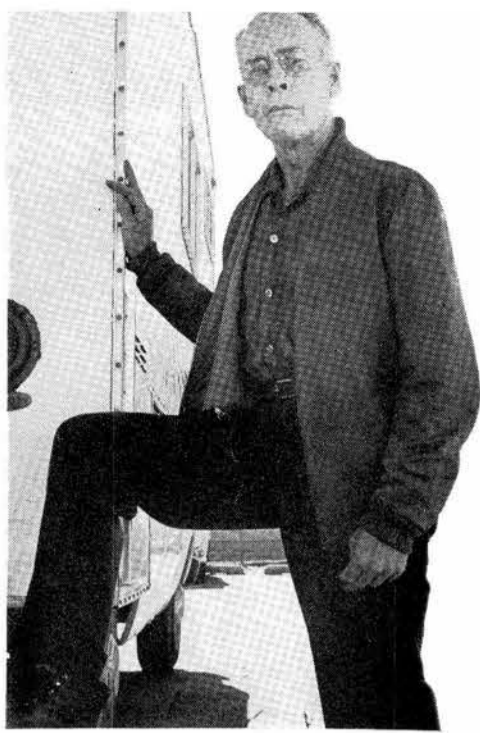
Appearing on the program will be Jack Wilson (8129) who will discuss "Training Programs for Metrology Technicians." Jay Chamberlin (7451) will present "Leak Calibration." "Dimensional Instability in Gage Blocks" will be discussed by Gil Eggert (9122). Charles Stoner (2452) will demonstrate how printed circuits are checked out and certified on a computerized coordinate measuring system.

IMOG coordinates information exchange within the AEC complex to improve the fabrication and physical inspection of weapon components and assemblies. The gaging subgroup is concerned with the science of dimensional metrology and the inspection of precision weapon components.

# Sandians Picked For Editorial Jobs

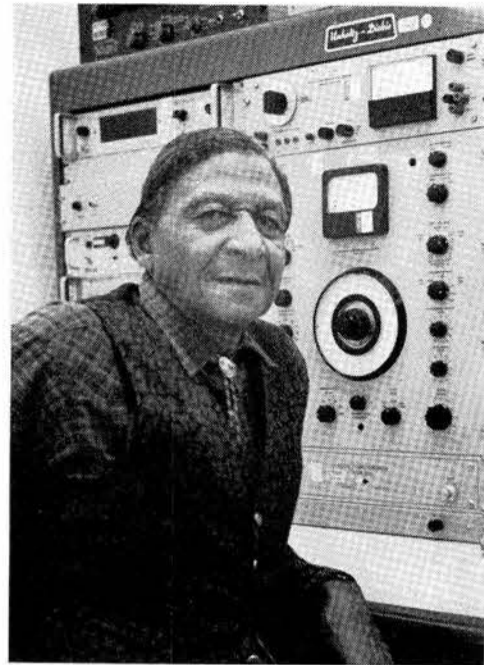
Three Sandians are among scientists from around the world who have been named to the editorial board of the newly-launched technical journal FERROELECTRICS.

Cecil Land (5153), Dick Nettleton (5151), and George Samara (5132) are on the board of the quarterly, published this month for the first time. FERROELECTRICS will publish papers on experimental, theoretical, and applied ferroelectrics.

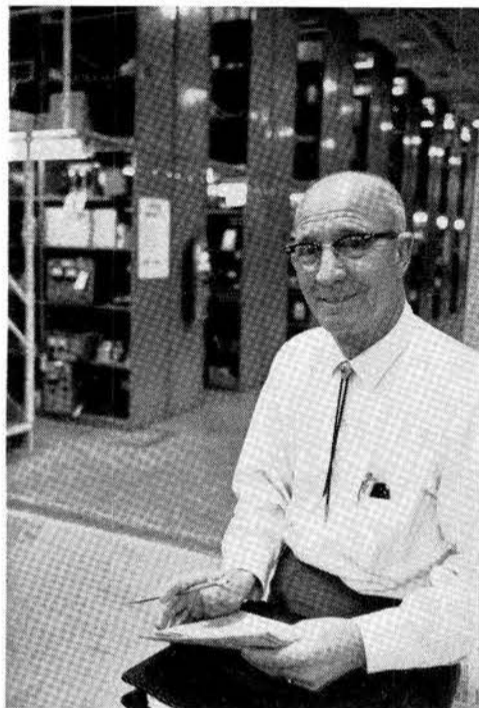


**RICHARD DYER**  
Security Operations 3520  
9719 Salem Rd. 87112

# Retiring



**ARTHUR BULLHORSE**  
Transducer Evaluation & Calibration 7511  
1017 Virginia NE 87110



**JIM LEONARD**  
Redistribution and Marketing 4622  
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**AUDREY SUTTON**  
Plant Maintenance 4512  
1612 Yakima Rd. SW 87105

## No Traveling Salesmen Jokes, Please

# Jean Bischoff is Sandia to Visitors

To the 400 or so visitors who sign in each month at Sandia's "front desk" in the lobby of Bldg. 800, Jean Bischoff is Sandia Laboratories. Jean's job, as receptionist for Sandia's Purchasing organization, is to greet manufacturer's representatives, ascertain the product involved, and arrange a meeting with the proper Sandia buyer. She also greets other "non-sales" visitors and aids them in making contact with the people or organization at Sandia that they wish to see.

"For this job, you need to know a great deal about Sandia organizations and functions," Jean says. "Fortunately, I spent seven years with the Training organization before becoming Sandia's receptionist and I did learn a lot about the Laboratories."

Jean has been at the front desk for the past three years.

"It's stimulating," she says. "The supplier representatives who visit Sandia are the best in industry and they come from all over the United States. They have information about products that Sandia needs."

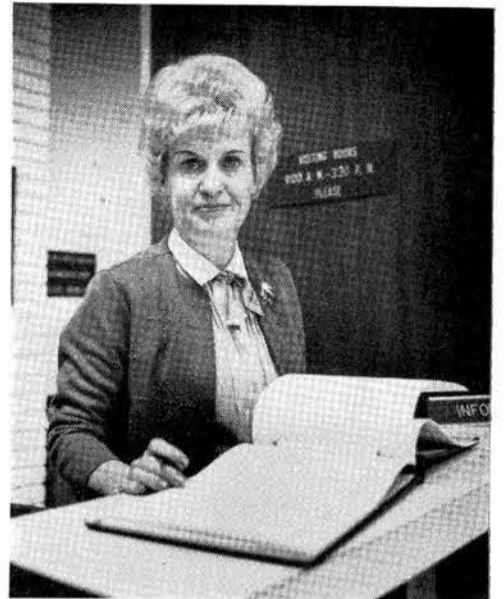
Jean also helps arrange the supplier demonstrations that are held in mobile vans and in the conference rooms adjacent to the lobby.

She finds that Wednesdays and Thursdays are the busiest days.

"The suppliers are usually traveling from one coast to the other and Albuquerque is in the middle. At least two-thirds of all our visitors are from out-of-town," she says.

Naturally they have questions about where to stay, where to eat, and where to visit.

"So I always recommend several places,"



**JEAN BISCHOFF**  
—receptionist at Sandia's "front desk"—

Jean says, "and tell them about the uniqueness of Albuquerque and some of our nearby scenic attractions. I sound like the Chamber of Commerce."

At the end of a supplier's visit, Jean collects a "Supplier Visit Report" which lists Sandians visited and products or services discussed. "This is a valuable reference," Jean says, "and it helps Purchasing people serve our engineers and scientists better."

# New Tax Law Means More Take-Home Pay

Some could call it the direct result of tax reform; others, an indirect benefit from tax revision. But, however termed, the tax changes President Nixon signed into law late last month will mean a boost in take-home pay for Sandia employees.

There's one possible complication, however. Most U.S. taxpayers have already received the newly-revised Internal Revenue Service tax form. You'll need it to file this year's return by the April 15th deadline. But, don't let the revision mislead you.

The change was adopted long before the President signed the new tax bill and isn't directly connected with it. In this year's return, you'll pay taxes on last year's income, using last year's tax schedules, ten percent surcharge and all.

Nevertheless, the new law should have an immediately beneficial impact. Employees will see some reduction in withholding starting with this month's final paycheck because of changes in exemption values and tax schedules.

For one thing, the ten percent surcharge has been reduced to five percent until July 1, when it will be dropped completely.

For another, on July 1, the standard \$600 exemption will be raised to \$650 until Jan. 1, 1972, when it will climb to \$700. One year later, it will move up to \$750.

The new bill also provides a change for people who take a standard deduction and do not itemize. For 1970, the allowed standard deduction is ten percent of the gross income up to a maximum of \$1000, which ever is less. In 1971, it goes up to 13 percent, maximum of \$1500; 1972, 14 percent, maximum of \$2000; and in 1973, 15 percent, with a maximum of \$2000.

In 1971, the new law will allow single persons to pay rates no more than 20 per-

cent greater than married taxpayers filing joint returns. Currently the bite can go as high as around 40 percent greater in extreme cases.

An increase in Social Security withholding included in earlier versions of the new tax bill was dropped from the final version. Through this year, Social Security withholding will follow the 1969 base and rate: 4.8 percent of the first \$7800 in taxable wages, with the maximum amount set at \$374.40 for the year.

One other special break for taxpayers won't affect your income tax return. Although the ten percent Federal excise tax on phone service will continue through 1970, it will drop to five percent on Jan. 1, 1971. A year later, it will be three percent. On Jan. 1, 1973, it will be lowered to one percent and, the following New Year's Day, it will come to an end.

## Supervisory Appointment



**LARRY POSEY** to supervisor, Beam Source Applications Division 5226 (newly created), effective Jan. 16.

Larry joined the Applied Radiation Science Division in 1965 and has remained with that group. His work has

been chiefly in radiation diagnostics, using laboratory radiation sources such as reactors and flash x-ray machines.

He has a BS degree in engineering physics and MS and PhD in engineering science from the University of California at Berkeley where he was a research associate.

A member of the American Nuclear Society and the Nuclear Science group of the IEEE, Larry has taught several courses in nuclear engineering at UNM.

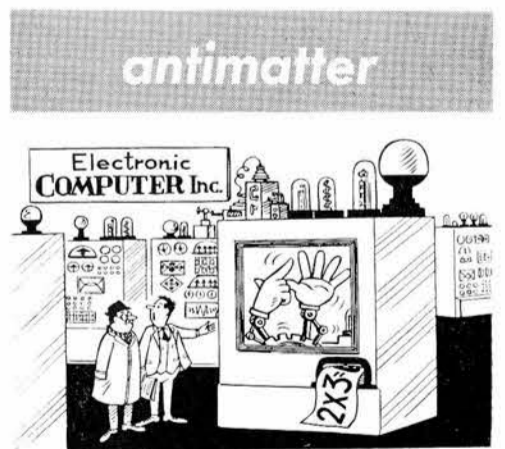
Larry and his wife Barbara live at 3707 Camino Don Diego NE.

## Events Calendar

- Jan. 30 - Feb. 1—Exhibit of Leonardo da Vinci models of both practical and theoretical scientific devices. Museum of Albuquerque, Yale Blvd. South.
- Jan. 30 - 31—Albuquerque Little Theatre presents "Come Back Little Sheba." Tel. 242-4750.
- Jan. 31 - Feb. 1—Cross-country skiing in the Chama area. N.M. Mountain Club, leaders Marge Lenth, 268-0282, and Mary Dey, 256-1970.
- Jan. 30 - Feb. 1—Edward Albee's "Everything in the Garden." Old Town Studio, tel. 242-4602.
- Feb. 1—Three movies on population explosion, 2 p.m., Museum of Albuquerque, free.
- Feb. 2—Hans Conried in "Spofford." Popejoy Hall.
- Feb. 3—Community Concert presents the New York Pro Musica. Popejoy Hall.
- Feb. 6-8, 13-15—Special production by the Melodrama Theatre of "The Drunkard" or "The Fallen Saved." Old Town Studio, tel. 242-4602.
- Feb. 9—National Ballet Company presents "Coppelia." Popejoy Hall.

## Sympathy

To Edward Dlouhy (7651-2) for the death of his mother Jan. 1 in Chicago.



"Here's one in your price range, but it only does simple arithmetic!"

## LAB NEWS

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### SANDIA LABORATORIES

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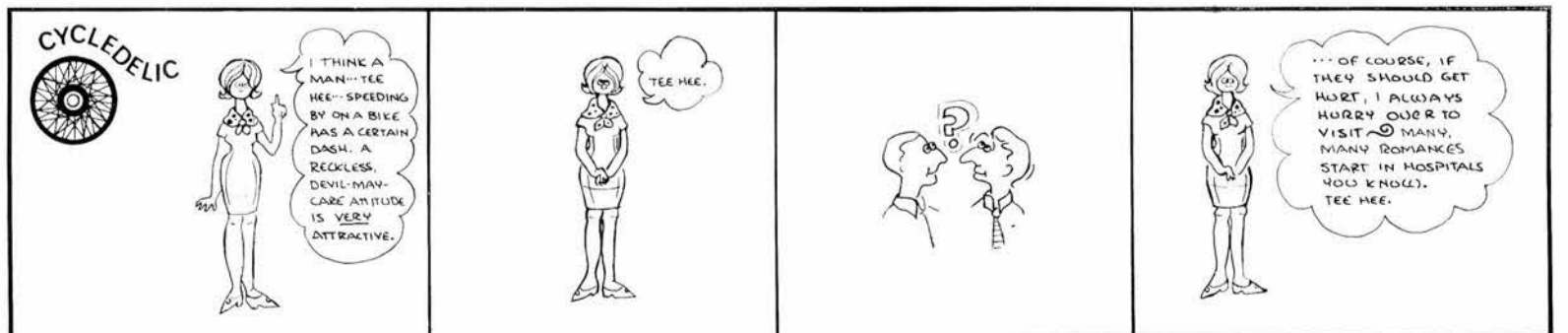
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Matt Connors & Lorena Schneider

are Staff Writers in Livermore

Bill Laskar is Photographer

Norma Taylor / All The Rest





DINING AREA of the Dadian's mobile home is scene for weekend travel discussion. Former homeowners, Eleanor (8234) and Tom (8312) agreed over four years ago that life in a mobile home community was best solution for present and future housing plans.

## Roots, California Style

# Sandians Enjoy Mobile Home Living

"When I learned they had inside plumbing and a few other built-in features," quips Tom Dadian (8312), "I quit calling them trailer houses. They're mobile homes."

"Some people identify you with *The Grapes of Wrath* characters in John Steinbeck's novel," remarks Herman von Steeg (8223-2).

"We're really not gypsies," says Martie Taylor (8157).

Sound like an image problem?

Today, a visit to one of the mobile homes Sandians live in will change any negative image.

Located in neat, manager-operated parks, the mobiles vary in width and length from single-wide (10' x 50') to double-wide (20' x 57') models. Gleaming aluminum awnings and evergreen planters mark entryways. Utility lines are underground. No visible TV antennas. In one location in Livermore, this environment costs \$68 - \$78 per month including water and garbage fees (gas, lights and phone are owner's responsibility). In return for their space rental, residents of the park have access to the recreation center with swimming pool, the laundromat, the car wash and group-sponsored activities.

"The people make you feel you belong," claims Sharon Heckler (8212-1) who moved into the community four months ago. "Guess we all have something in common that makes us part of the group."

"The neighbors are friendly but not familiar," says another newcomer, Bud Pearson (8222-1). "Never saw a group so willing to be helpful. From offering advice on the care and maintenance of your unit to loaning tools to do it."

The interiors of the mobiles are custom-built to the owner's wishes. Every square inch is used to advantage. Wood-paneled walls never need painting; a washing once a year is adequate for the most meticulous housekeeper. Kitchens — though small — are the pride of the lady-of-the-house. A step or turn gives her access to stove, built-in oven, refrigerator, work space, sink and food-preparation and serving areas. There's more cupboard and closet space than appearances show. Distinctive decorative touches in all rooms mirror the personalities of the owners.

"Space is no problem," relates Herman Von Steeg. "My wife serves a buffet-style dinner to 16 when our family visits."

"Admittedly," grins Eleanor Dadian (8234), "our guests have to be friendly. There's no way to be stand-offish when you're entertaining 32 people."

Nearly all Sandians owning mobile homes were former homeowners; a few rented apartments. They're all convinced, however, that there are more advantages in mobile home living than in any other type of housing.

Former homeowners relish the leisure time gained by reduced house and yard maintenance. The newfound freedom lets them play that weekday round of golf, pursue their hobbies or travel weekends free of the "should be doing" mania. Community living provides a sense of belonging and security not experienced in housing developments. Former apartment dwellers no longer feel confined and subjected to distracting noises of the next-door neighbor.

"Mobiles are really a compromise between a house and an apartment," says Les Romp (8162). "You have property and room without the maintenance."

Comparing overall costs of mobile versus permanent housing is dependent upon your investment point of view. Reduced property taxes could be offset by cost of rental space. Value of the mobile home normally depreciates while conventional homes may increase in value. People approaching retirement age prefer to pay off mobile home loans in five, seven or ten years

rather than pay interest and taxes on 25-30-year home loans. Steve Corder (8264-1), who has lived in a mobile home for over seven years, maintains that "young people should consider mobile home living. It's a sensible way to get a housing foothold and avoid expensive home-buying ventures."

"But I sometimes miss my garage, my workshop and general 'puttering' area," laments John Neuberger (8124). That's understandable for John. His last major project was designing and building a 2700-square foot home in New Mexico's Sandia Mountains.

Lack of garage space is a minor problem with Ken Loughlin (8122), too. "The car I want to use," says Ken, is never the last one in the single-width carport. But I still maintain mobile home living is a great way of life."



AFTER DINNER finds Virginia and Ken Loughlin (8122) seated in dining and kitchen areas of their mobile home. Increased leisure time lets the Loughlins pursue their varied hobbies and gives Virginia more time to devote to volunteer charitable work.

## Take Note

Paul Heppner of Project Engineering Division 8162 received special honors at the 44th Annual Livermore Chamber of Commerce Installation of Officers banquet this month. He was honored for his civic efforts in heading Livermore's Centennial Committee throughout the many events observing the city's 100th birthday anniversary last year.

Marlin Pound, supervisor of Training and Benefits Division 8214, has been elected vice-chairman of the Livermore Area Recreation and Park District board of directors for 1970. A member of the board of directors since 1968, Marlin previously served as a member and chairman of the Recreation District's Personnel Commission for four years.

## Sympathy

To Victor Krause (8223) for the death of his mother-in-law in Sacramento, Jan. 13.

To James Keller (8353) for the death of his father near Bliss, Idaho, Jan. 13.

To Bill Long (8182) for the death of his father-in-law in Parkersburg, W. Va., Jan. 13.

# LIVERMORE NEWS

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SANDIA LABORATORIES

JAN. 30, 1970

## Origin of Tektites Subject of Feb. 10 Colloquium

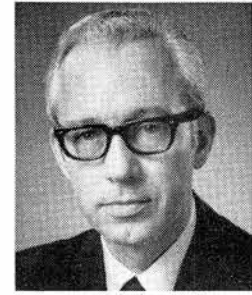
A brief history of tektite research, a discussion of the characteristics of tektites and the evidence for their lunar origin will be presented at the Sandia Laboratories Livermore colloquium on Feb. 10.

Dr. Dean R. Chapman, Chief of the Thermo and Gas Dynamics Division at the NASA-Ames Research Center, Moffett Field, Calif., will be the speaker. Tektites are glassy chunks of material which have been found in Australia and other areas. It is believed that the Australian tektites were sprayed from the moon's surface some 700,000 years ago by impact of a meteorite the size of a small mountain, which formed the 56-mile wide, 9-mile deep lunar crater Tycho.

In 1948 Dr. Chapman received his doctorate from the California Institute of Technology. A recipient of the Rockefeller Public Service Award, he also received the NASA Medal for Exceptional Scientific Achievement for his research. He is a member of the American Institute of Aeronautics and Astronautics and the Meteorological Society.

Tickets are required for admission. Alec Willis (8351) is host.

## Sandia Helps Develop Jobs For Hard Core Unemployed



Bob Norvill has been named Sandia Laboratories Livermore representative to the National Alliance for Businessmen, a program established to meet the problem of the hard core unemployed.

He will be assisting with the efforts in the East Bay Area — Alameda and Contra Costa Counties — for approximately six months.

Chief responsibility is to contact industrial firms to solicit as many jobs as possible for the chronically unemployed. His activities are presently concentrated in the city of Richmond, but soon he will be moving into the Port of Oakland area.

The NAB received its charter in the President's Manpower Message to Congress on Jan. 23, 1968, in which American business was called upon to apply its talents to this critical national problem. The goal of NAB is to find jobs in private industry for 614,000 men and women by July 1, 1971, and to find productive summer jobs for needy youth.

The Alliance program is called "JOBS—Job Opportunities in the Business Sector." In the East Bay Area the quota has been established as 6900 basic jobs by June 1970. To date, 3400 jobs have been created as a result of the program; hopefully, the balance will be pledged before June to meet the goal.

Bob feels the program is most worthwhile, especially in the light of the results of the past two years. "The program was designed to get business support in making jobs available and industry has, in fact, opened new jobs to people who would not have otherwise been considered," Bob says.

"One of the most significant figures is the retention of those employed," he continues. "Our figure is running about 54 percent vs. the 28 percent which I understand is the history of the Job Corps Program. I believe one of the reasons for NAB's success is the counseling provided along with job training during the initial phase."

Bob has been with Sandia since 1954 and has worked in compensation, industrial engineering, and quality control in Albuquerque and administrative assistance, public relations, classification and graphic arts in Livermore.

## Drugs and the Community Is Subject of Forum Series

A forum series, "Drugs and the Community — An Open Forum," is being offered by the Hayward Unified School District Adult School as a public service. There is no registration fee.

Following are topics which will be included in the forum series: Feb. 4, "Our Drugs — Your Drugs," Rev. John Frykman, Lutheran Church in America with Youth Panel from Haight-Ashbury Medical Clinic; Feb. 11, "The School Scene," Mary Jane Quick, R.N., and Administrator Panel, Hayward Unified School District; Feb. 18, "Educational Approach to Preventive Drug Abuse," Herbert O. Brayer, Coronado Unified School District (answers developed following a three-year study); Feb. 25, "The Government and Drugs," Hon. John J. Purchio, Presiding Juvenile Court Judge; March 4, "Drugs Are Not the Problem," James Fadiman, PhD, Psychologist, Stanford Counseling Center (instructor, Channel 9 Series on Drugs); and March 11, "Community Approaches to Drug Abuse," H. Bryce Brooks, Director of Awareness House, Fort Bragg (featured in the March 21, 1969, issue of *Life Magazine*).

It is anticipated that this opportunity to learn about the role of drugs in our society will provide information and stimulate

action by parents, school, and the community toward some solutions to the problems involved.

The series will be held at the Hayward High School Gymnasium, 1633 East Avenue, Hayward, from 7:30 - 9:30 p.m. Additional information may be obtained by calling the Adult School office, 782-1887.

## Congratulations

Mr. and Mrs. Bruce Affeldt (8223-2), a daughter, Deborah Ann, Nov. 14.

Mr. and Mrs. Glenn Dietel (8155), a daughter, Laurie Ann, Nov. 27.

Mr. and Mrs. Dick Finn (8252-1), a daughter, Susan Carolyn, Jan. 9.

Mr. and Mrs. Fred Perez (8216-1), a son, Sean Michael, Jan. 8.

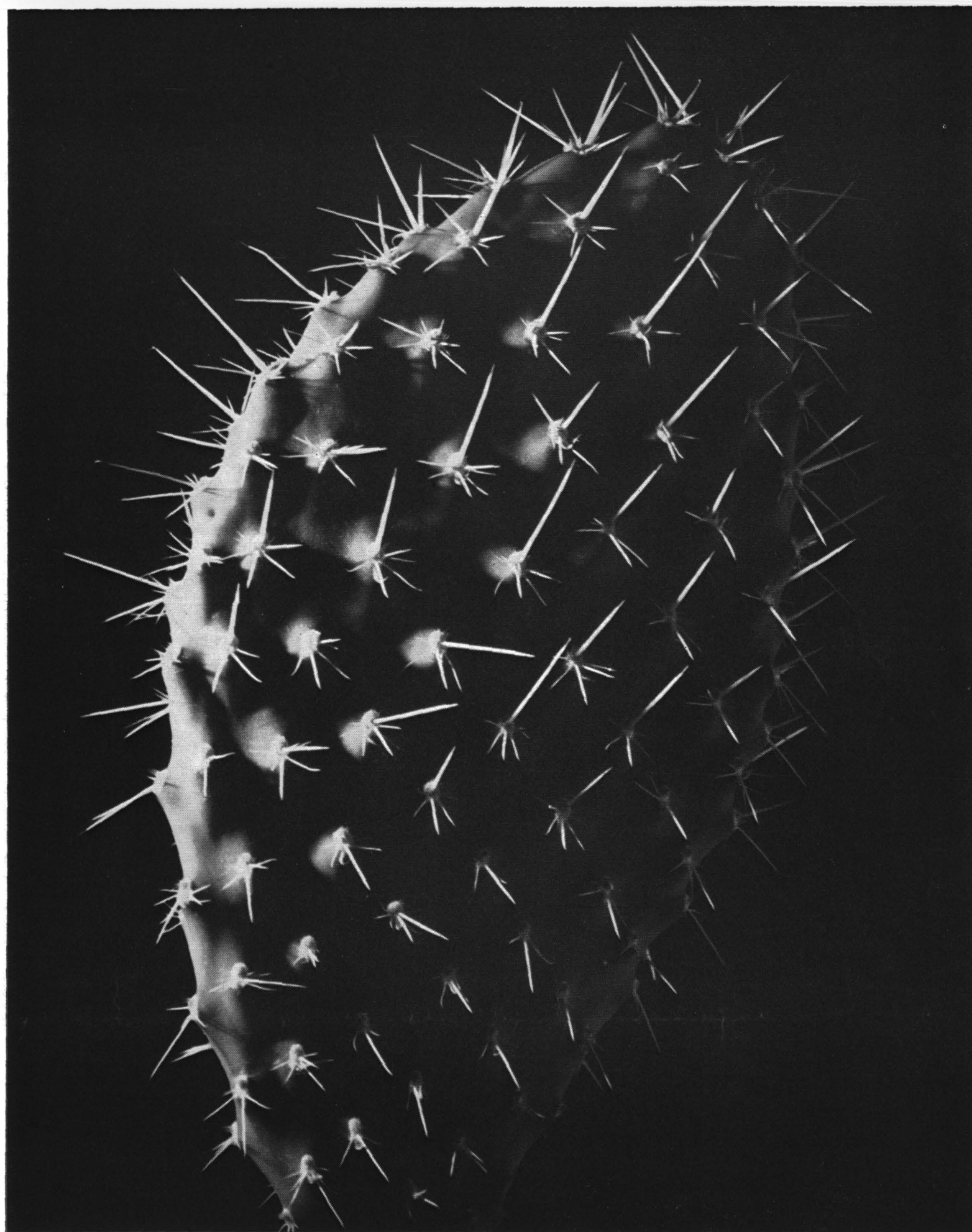
Mr. and Mrs. Jim Travis (8252-1), a son, Jeremy David, Dec. 27.

Dennis Ariizumi (8123) and Christine Takeshita, married in Spokane, Wash., Dec. 26.

Don Crumpler (8122) and Rude Wade, married in Lincoln, Ill., Dec. 6.

Harold Hanson (8342) and Marsha Ann Trew, married in Livermore, Dec. 18.

Lynn Hearn (8253-2) and Willie Shackelfoot (LRL), married in Stockton, Jan. 17.



FIRST PLACE, Willard Converse (5300)

People and Abstracts

## Photo Contest Winners -- Part II

It was, we admit now, a mistake to make the second category in the LAB NEWS photo contest encompass both people and abstracts. Final judging was very difficult. How can geometry compete with baby pictures?

Finally, however, we arrived at the winners. The basis for judging was simply, "Is this a superior photograph?"

Willard Converse's cactus is certainly a superior photograph. It takes first prize. Willard, administrative assistant to the 5300 and 5500 directorates, has been interested in photography since 1945 but only as a major hobby in the past five years. He achieves strong design and strong composition in his dramatically stark photographs of nature forms. Currently he is experimenting with high contrast 35mm film and various developers.

Second place goes to Jerry Love, a staff assistant in Timers Division 2333. Jerry is equally interested in photography, painting and sculpture. He uses his art to "tell a story." The little girl in the rain in his winning photograph is his daughter Lori.

Dick Berg, an electrical engineer in Division 2333, takes third prize with his still life of a white plate and white vase.

"It was a technical exercise in lighting," Dick says. "I opened the shutter and 'painted' the setup with a low power single light source to eliminate shadows." Dick has been interested in photography for about 15 years and a few years ago was very active in the Enchanted Lens Camera Club.

Honorable mention goes to Ken Ludwick, a lab assistant in Division 7521, for his photograph of a young Mexican. The photo was taken in San Miguel de Allende, Mexico, while Ken was attending the art institute there. He started his year of study as a painter but switched to photography. He has been doing his own darkroom work for about eight years.

Honorable mention also goes to the photograph of a **chutspah** guy with his arm around (we assume) his girl friend. This one stands on content. Photography, after all, is not so much an art form as it is a recorder of life. The photo was taken by Rich Sons of EMR-EMP Division 7362. Rich has been interested in photography since high school. He likes to record his travels and gets satisfaction when his friends enjoy the photos.



SECOND PLACE, Jerry Love (2333)

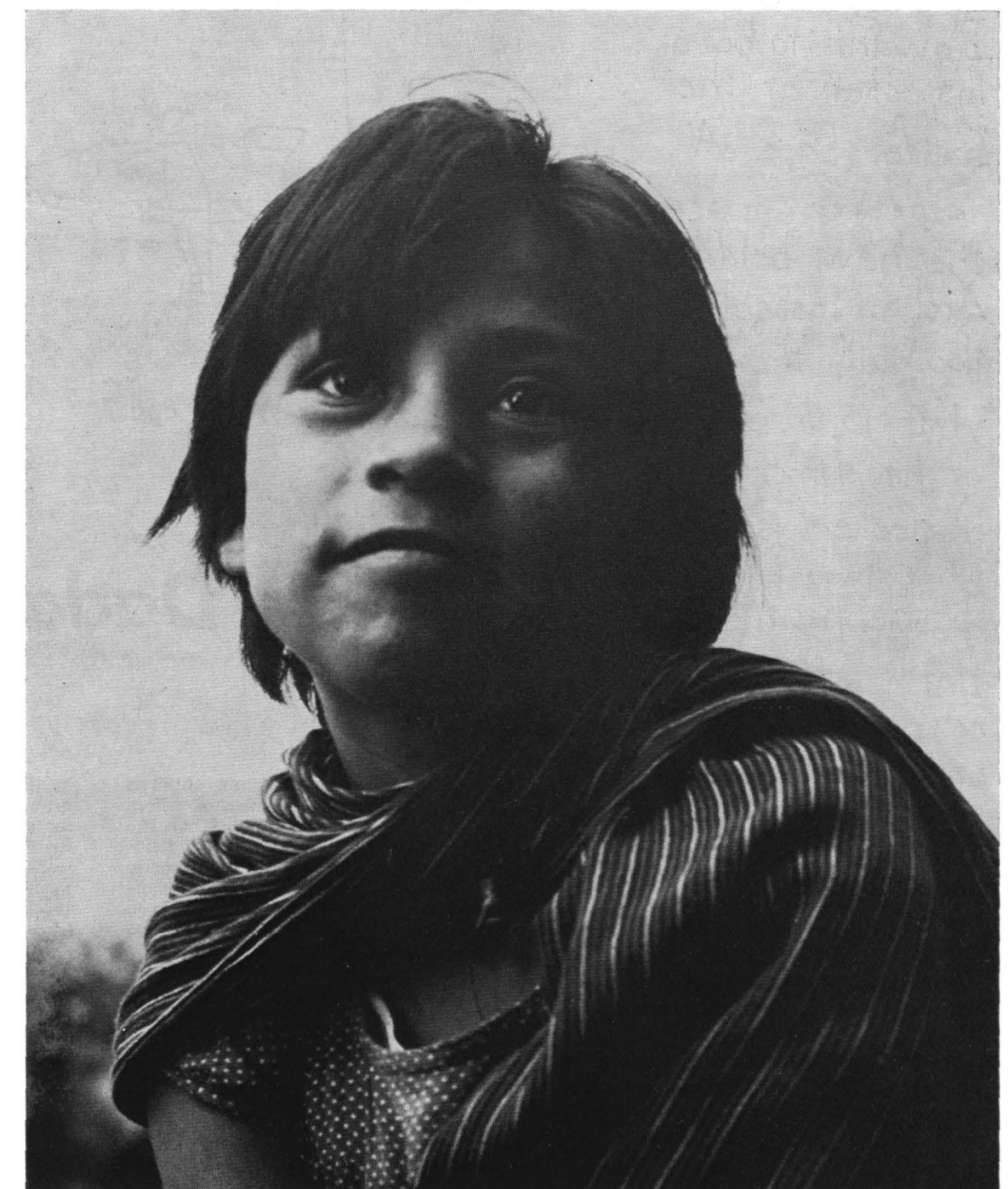


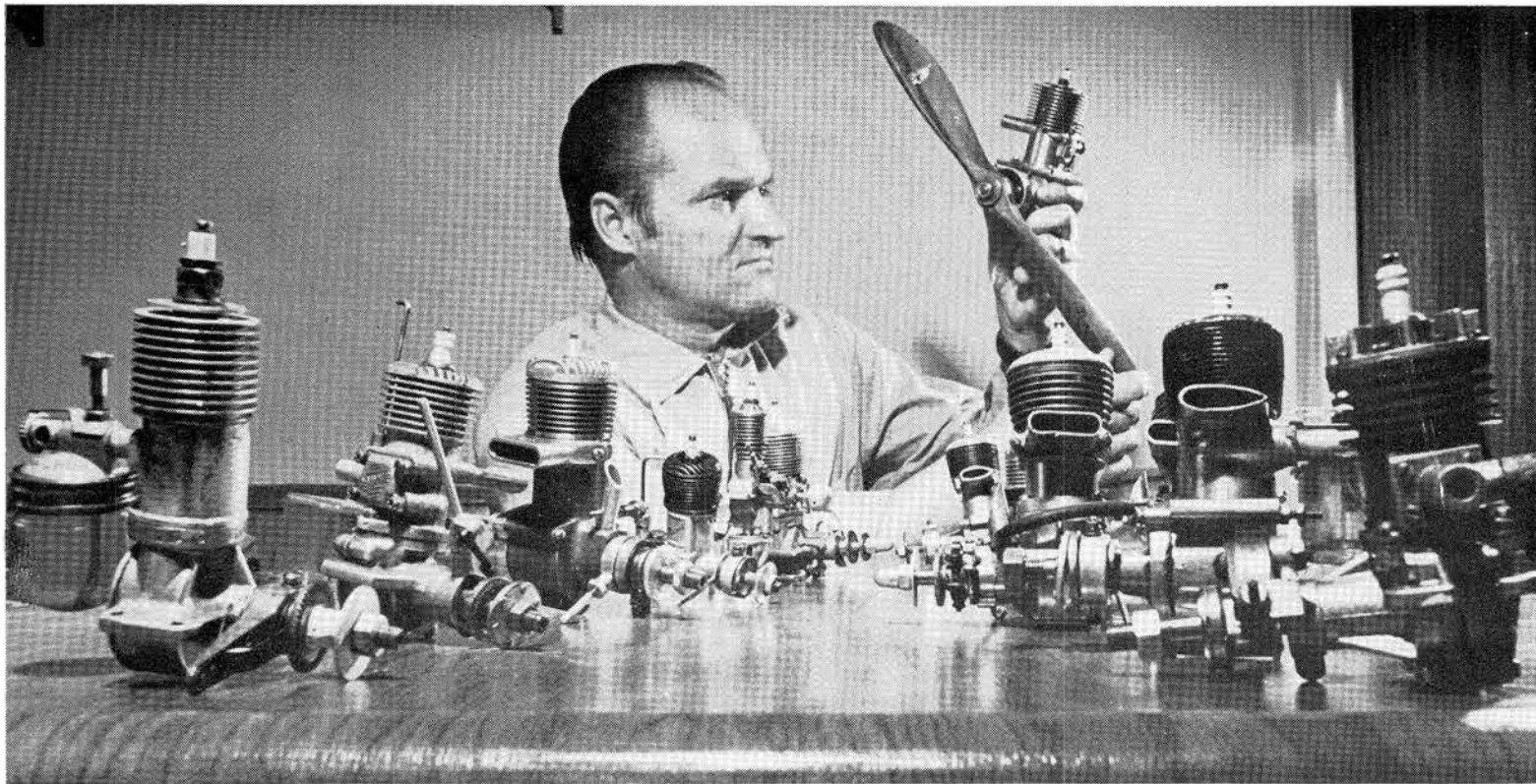
THIRD PLACE, Dick Berg (2333)

HONORABLE MENTION, Ken Ludwick (7521)



HONORABLE MENTION, Rich Sons (7362)





GENERATION GAP is spanned by Ralph Schellenbaum (9226) who set out to reconstruct a happy part of his youth by collecting model

airplane engines of the past. He now has more than 40 of the battery and ignition sputters of the 30's and 40's.

### Vintage Prop Wash

## Old Model Airplane Engines Turn Him On

While there are all kinds of collectors around these days — coin collectors, gun collectors, car collectors — there are few re-collectors. But among those few is Ralph Schellenbaum (9226) who is re-collecting the model airplane engines he knew as a youth.

"Like a lot of people my age, my interest in model aircraft was interrupted by WWII," says Ralph, who enlisted when he was 17. After the war he again took up model airplane building and flying but found that his hobby, like everything else, had experienced major technological innovations. Glo-plugs replaced the temperamental ignition system, and radio con-

trolled flying was coming into vogue. And although Ralph took up the new technology with gusto (he soon became one of the best radio control model men around), he looked with nostalgia upon the battery, spark plug, and 70-weight oil days of his youth.

"About four years ago I started to collect and fly the model engines I'd had as a kid. I soon found myself trading off my excess radio control equipment for the sputters of the past." Like most hobbies, this one got out of hand and now he has more than 40 antique engines, far more than he ever had as a kid.

Ralph's collection spans most of the early

days — the 30's and early 40's. Among his old engines are an Ohlson Gold Seal (circa 1935) the Forster 99, Brown Junior, Baby Cyclone, Bantam, Atom, the Orwick, and about 15 other models which old timers would recognize.

But Ralph does not consider himself a serious collector. It's just an activity he fits in between building a sailplane (he's a sailplane pilot with the Albuquerque Soaring Club), developing electronic music synthesizers (he helped build one of the first such instruments), and painting (a few years ago he took a first in oils at the State Fair).

## Christmas Baskets Cheer Employees

The practice of sending baskets of fruit to all seriously ill or hospitalized employees during the Christmas season has continued for many years and yet most recipients are pleasantly surprised and usually unaware of this Laboratories policy.

One of them writes:

"I was at home during the Christmas season, convalescing from a recent operation, when, on December 24, my department manager arrived with a beautiful basket of fruit, candies, nuts, and a lovely greeting card.

"I assumed it was a 'get-well' gift from the members of my organization and expressed myself to him accordingly. He quietly assured me that it was not from the department but from the Laboratories, and it was the custom to do so for 'employees who were invalidated over the Holidays.'

"This was a very thoughtful thing to do and not only added to the pleasure of my Christmas but, I'm sure, speeded my recovery.

"Thanks to all of you for your thoughtfulness."

At Albuquerque, the program is handled by "O J" Foster of Employee Services Division 3123, and at Livermore by Jim Henderson of Training and Benefits Division 8214. A total of 67 baskets was delivered during the holidays. "O J" notes "sometimes fruit is not on the person's diet — but the gesture is still highly appreciated."

## Speakers

J. R. Holland (5321), "Radioisotopic Power Supply for Space Use," American Society of Certified Engineering Technicians, Jan. 26, Albuquerque.

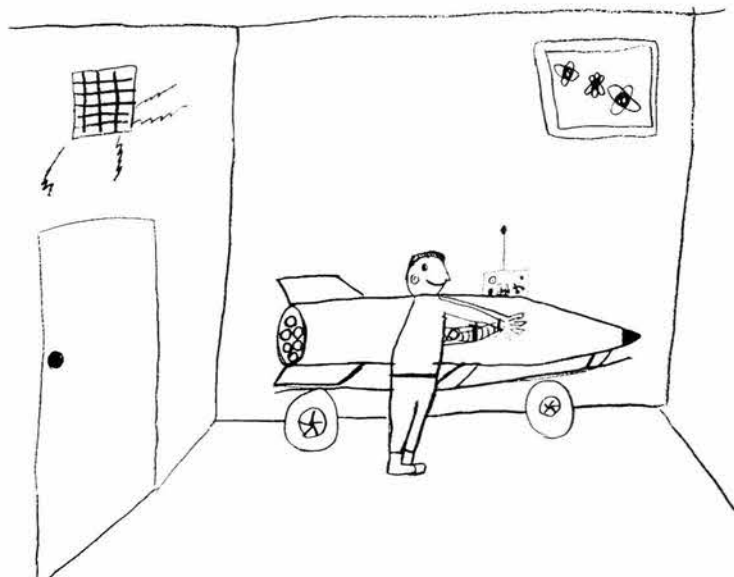
Albert Narath (5100), "The Magnetic Impurity Problem as Seen by NMR," American Physical Society Meeting, Dec. 29-31, Los Angeles.

D. F. McVey, Irving Auerbach, and D. D. McBride (all 9328), "Some Observations on the Influence of Graphite Microstructure on Ablation Performance," AIAA Eighth Aerospace Meeting, Jan. 20, New York City.

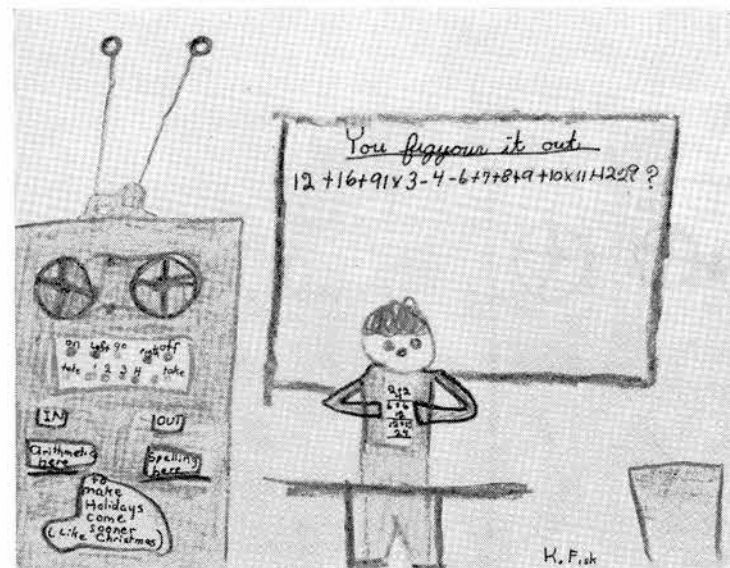
E. D. Jones (5114), "Ultrashort Laser Induced Stress Waves in Solids," Boeing Aircraft, Jan. 21, Seattle, and Colorado State University, Jan. 23, Fort Collins.

When I get big I want to be a inspecker at the Sandey base. A inspecker inspecks the new beldings. And a inspecker also tails the workers what to do. But most of the time the inspecker is in his aface working on a speshel modl. Sometim flrt'n off with his ceccratary. I will work on miccil modls too. In my spar time I will make some plans for a school. A different school.

Joe Snowdon, age 8



Tom White, age 7



Karen Fisk, age 9

## Where Daddy Works

As might be expected, young children often have an imaginative idea of where their father (or mother) works. When the office is located behind a security fence and cannot be visited, the child may relate home-type items with never-seen, complicated, technical devices. After all, you don't see many TV "rabbit ear" antennas on top of computers.

The letter was written by Joe Snowdon, eight-year-old twin son of John Snowdon. John is a project leader for the inspectors in Plant Engineering Department 4540.

Clifford Fisk works with computers in Advanced Applications Division 9424 — as

evidenced by his nine-year-old daughter's drawing. Karen has added an interesting feature to her computer, a button "to make holidays come sooner."

Apparently seven-year-old Tom White has the impression that his dad, Robert E. White (7433) works in a pretty secure area when he checks the electromechanical components on missiles.

Then there's LAB NEWS photographer Bill Laskar's son Charles, age 7. Bill is at a loss to account for the big hat, but the camera and lights look authentic. What, no cheesecake photos?



Charles Laskar, age 7



## COMEDY CLASSIC NIGHT



A PIE IN THE FACE is an old gag, but classic. And classic fun is planned for Saturday, Feb. 7, at the Coronado Club. The movie, "Never Give a Sucker an Even Break," with W. C. Fields, a free wine fountain, a tremendous Italian buffet dinner, and dancing are scheduled. Tickets (\$3.50 for members) must be picked up by tomorrow. Pie-man is Jim Walston (3417); Sam Sterling of the Coronado Club staff does the pointing.

### Coronado Club Activities

## Comedy Classic Night Set Feb. 7

Comedy Classic Night scheduled Saturday, Feb. 7, will be a great fun evening. It will start with a free wine fountain at 6:30 p.m. followed by a tremendous Italian buffet dinner from 7 to 8:30 p.m. featuring veal parmesan and spaghetti with meatballs and Italian sausage. The classic film, "Never Give a Sucker an Even Break" with W. C. Fields, will be shown at 8:30 and then dancing with Sol Chavez and the Duke City Brass will wind up the affair. Tickets (\$3.50 for members, \$4 for guests) must be picked up by tomorrow.

### Social Hours

Tonight, the Club's famous chuckwagon roast beef will be the social hour buffet feature. Tommy Kelly and the smiling Irishmen will be on the bandstand making happy music from 6 to 9 p.m. Social hours start right after work on Friday evenings with special prices until 9 p.m. Pat Reich and piano entertain with a sing-along in the main lounge from 9 to 12 p.m. The buffet is spread from 6 to 8 p.m.

On Friday, Feb. 6, the Changing Times will be on the bandstand while the southern fried chicken buffet is spread.

Mexican food will top the buffet menu for Friday, Feb. 13, when Tommy Kelly returns to play for dancing.

In the meantime, the mid-week social hours continue on Tuesday evenings with special prices in the main lounge from 5 to 8 p.m.

### Teen Go Go

The Bounty Hunters will be wired into the bandstand from 7:30 to 10:30 for the Teen Go Go on Saturday, Feb. 14. Member parents should pick up tickets for their youngsters on Friday, Feb. 13.

### Teen Dance Lessons

Mike Haley will instruct a six-week course of ballroom and fad dancing for teenagers starting Feb. 12. The class will meet on Thursdays from 6:30 to 7:30 p.m. Registration fee (\$8 for an individual, \$14 for two in the same family) should be paid at the Club office before the first session.

### Bridge

Coronado Ladies bridge will meet Thursday, Feb. 5 at 1 p.m. Duplicate bridge meets Tuesdays at 7 p.m.

## LAB NEWS

PAGE EIGHT

JAN. 30, 1970

## Fast-Draw Expert and Early Day Cowboy Subjects for Local Writer

"The Desert Is All Things to All Men" is the title of an essay written by Security Inspector Bob Hiltunen which appears in the December issue of DESERT magazine.

A fondness for arid lands would seem unusual for a native of Oregon, but Bob did spend eight years at Salton Sea when Sandia operated a test base at that Southern California site.

"I was working as a logger in Oregon and had just come in wet and cold from a windy day in the woods when I received my job offer. The desert sounded very desirable at that moment," he recalls. As it happens, he was among the last of the work force to leave Salton Sea and transfer to Albuquerque.

Bob had always been interested in writing and his first attempt at a magazine article was sold to GUNS AND AMMO in February 1960. It was the story of a friend from the Yakima Valley who manufactured a fast-draw holster used in movies and TV shows, and who taught many of the "fast-draw guns" on the screen.

Later articles which appeared in FRONTIER TIMES and TRUE WEST were based upon interviews with Ed Wright, a 78-year-old ex-cowboy who lived in California.

He is currently winding up a factual article on the 1905 floods in the Imperial Valley.

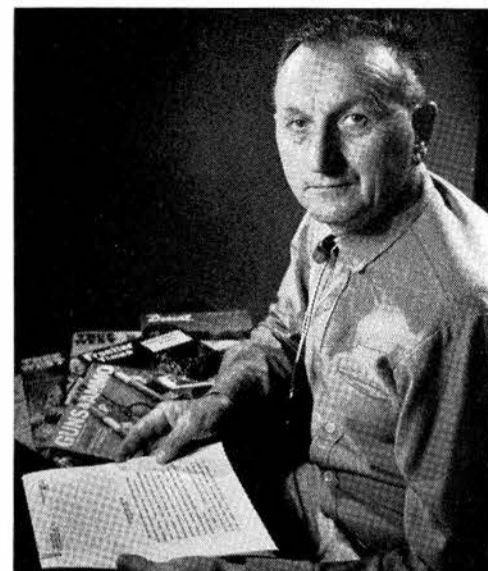
Will he continue to write? "Certainly," Bob says, "but probably not fiction. Friends who are authors have helped with the mechanics of writing and selling, but I have to feel a story before I can write it."

### Sanado Club Meets Feb. 10

An art show by members and a talk by world traveler Kitty Sadock will highlight the Sanado Woman's Club sherry luncheon meeting Tuesday, Feb. 10. The meeting starts at 1:15 p.m. at the Coronado Club.

Mrs. Sadock will discuss her recent travels from Manila to Istanbul.

The Sanado Art Associates will exhibit paintings. Mrs. Walter Bell is chairman.



SECURITY INSPECTOR BOB HILTUNEN has an interest in deserts and Western history which provides material for magazine articles he has written and published.

## Take Note

Richard Lynch (5131) will discuss "Thermodynamic Properties of Solids and the Gruneisen Parameter" at the 5100 Staff Seminar on Tuesday, Feb. 3.

"WONDI IV — A Program for Calculating Problems of Motion in One Dimension with Rezoning" will be presented on Tuesday, Feb. 10, by Billy Thorne and Donald Mason (both 5162).

Both seminars meet at 8:30 a.m. in Bldg. 806, Rm. 201.

John Davenport, (2334), ext. 2230, is looking for a host family for a high-school-age foreign exchange student during school year '70-'71. The exchange student will be attending Sandia High School under the American Field Service Program. Call John for more detail.

## Home Movie Amuses, Makes Serious Holiday Safety Points

Slapstick humor can be very effective to get across a serious idea.

That is what Bob McKelvey decided when his turn came to prepare the safety meeting for Administrative Systems Division 4117. He enlisted the aid of Dick Jennings (4113) and the two Sandians spent two weekends and several evenings preparing an 8 mm home safety movie.

The movie is full of pratfalls (at one point Bob falls off a roof wearing a Santa Claus suit), misspelled titles ("Holiday Safty"), and action (explosions, burning Christmas trees, auto crash).

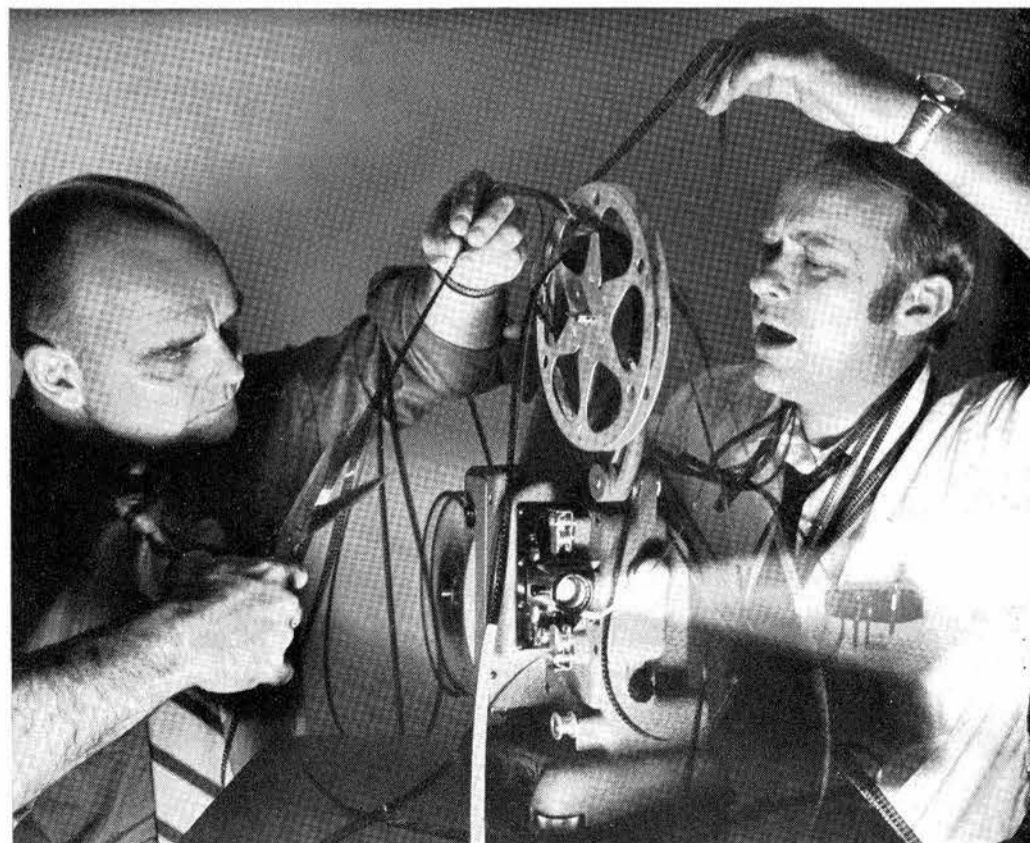
"We got a lot of laughs when we showed

it," Bob said, "and even some applause—the only safety movie I know of to get applause. After we showed it the first time, we re-ran it and talked seriously about safety. Safety is important and we did make some points."

Don't drink and drive, decorate safely, don't overload circuits, don't overeat, dress for the season, obey safety signs, and keep in condition were some of the rules for holiday safety illustrated in the film.

The final safety rule illustrated in the film was "Don't make home safety movies."

"I almost did fall off the roof," Bob says.



FELLINI AND BERGMAN? No, it's Bob McKelvey and Dick Jennings — writers, producers, directors, actors, photographers and editors of a home safety film which entertained (and informed) co-workers in Department 4110.

## SAFETY



is  
knowing  
your  
own  
strength